A.N.A.R.T.S. News Bulletin 1346 1st May 2005.

Col's Column

Early Electrical Communication.

Cooke and Wheatstones progress.

Despite the disputes between the partners, the progress of their work carried on unabated. The first commercial telegraph in Britain was installed on the Great Western Railway between their main Station at Paddington to West Drayton, about 25 to 30 miles west of London. This was then extended to Slough in Buckinghamshire.

Wheatstone had a Poster made that was presumably displayed at the GWR Stations and around London. It was an advertisement for the partners telegraph. It claimed that the 'Electric Fluid' travelled at the rate of 280,000 miles per second. Wheatstone arrived at this rate by discharging Leyden Jars through a length of wire, the sparks at the end of the wire were observed through a rotating mirror. Maybe the error was due to a lack of discrimination in the mirror indicator, or maybe he miscalculated the length of the wire. Whatever the reason for the error, the technique he used was a great contribution to science of the time and it made Wheatstone famous, even if we discount his other achievements. Later when questioned about this speed of electricity before a Parliamentary committee he adjusted it to 192,000 per second, a more realistic figure. A copy of this advert will be placed on my web site today.

Between 1840-45 they installed telegraphs on the Blackwall Railway and the Edinburgh to Glasgow Railway, as well of course their first telegraph on the Great Western. All this work was performed by contracts, but when they won the tender for the London to Dover Railway they decided to form a Company, it was called 'The Electric Telegraph Company' established in 1845. In the same year Cooke devised a cheaper method of suspending overhead cables for their telegraphs. He may have been influenced in this by the method used by Morse who was constructing telegraph lines in the United States at the same time.

We shall have a look at that company in next weeks part.

73's Col VK2CTD

IPS Weekly Solar and Geophysical Report 22/28th Apr.

SUMMARY

Date	22	23	24	25	26	27	28
10cm flux	77	79	82	86	91	95	98
AFr index	7	5	5	9	2	1	1 est
Aaus index	6	6	7	6	2	1	1 est

T index 26 43 46 44 34 29 28

Solar flare activity was very low 22/27th and low on 28th.

Geomagnetic activity observed for the Australian Region was
quiet 23rd 25/28th and quiet to unsettled on 22nd and 24th.

Southern Australian Ionospheric F2 critical frequencies were
near predicted on 22nd 25/28th near predicted to 15 percent
enhanced on 23rd and enhanced 15 percent on 24th.

Forecast for 29 Apr to 5 May

Solar activity should be low.

Geomagnetic activity should see unsettled to active levels
with isolated minor storm periods expected 1/2nd May.
Otherwise, mostly quiet levels are expected.

Frequencies should be mildly depressed after local dawn on
2nd May otherwise near normal. No Short Wave Fadeouts are
expected.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES for week ending 28 Apr

Our information this week came from AA5AU I5FLN DJ3IW N7BF
GB7DXG and the OH2AQ DX Summit. Thank you all.

Bandpass

Friday 22
0006-14088 XQ1VLY
0133-18100 BV50CRA
0843-14083 EW8IX
1114-14085 SU9FL
1137-14081 RK4HWW
1241-10142 VQ9LA
1343-21079 A6/ON5NT
1353-21081 YE50AA
1415-14081 A6/ON5NT
1618-14086 4L1DA
1707-10137 CT1XK
1707-18106 TU2OJ
1735-18105 TU2OJ
1909-10141 JO1WKO
1916-14093 VR2XLN
1926-28085 EA3GP
2015-10140 HA5UY
2059-14089 CT3BD
2103-14086 TF3GC
2112-14085 EA8RR
2132-14082 KP4FKN
2136-14090 HC5T
2202-3585 DQ80IARU via DF0HQ
2241-14086 CE3CDV

2243-10140 ON7GB

Saturday 23
0022-10145 VQ9LA
0022-7036 PZ5RA
0034-10140 OK2LCN
0038-10140 DF3GY
0038-10143 PT7AZ
0209-14081 UN5J
0501-14082 FR5AB
0700-14084 UA0IGV
0841-14082 TA4KA
0846-21082 YE50AA via YB1AR
0900-14080 ON4MRI
0919-14085 TA4KA
0925-18101 AH2J via JR1VAY
0936-21083 A6/ON5NT
0939-21080 FR5AB
1018-18101 JA1CLW
1104-18104 9A7DX
1113-18103 4X6UO
1118-18102 OM5MF
1143-10142 VQ9LA
1207-14084 GW4SKA
1217-14086 YV6BTF
1242-14100 PH3BDJ
1252-21076 CX4AAJ
1254-21084 YB0DPO
1255-21076 YB0WWW
1308-14084 TA1MB
1313-14082 C6AWF
1315-21093 V51AS
1316-21076 YE50AA
1325-14085 CT3IA
1331-14109 UN8PO
1332-14102 MW0CPZ
1335-14082 OX3HX
1339-21086 ZC4LI
1339-21080 3B8MM
1346-21078 CX4AAJ
1354-14103 AH2R
1401-21077 YB0WWW
1403-14077 JA7IC
1407-14078 4L1BR
1408-14093 9V1UV
1415-14077 YV5AAX
1426-21082 YB0DPO
1435-14093 C6AWF
1437-14094 HS1PDY
1439-14098 A45WD
1452-18102 SU9FL
1504-14094 TA4KA
1516-21087 LT0H
1516-18104 4X6UO
1523-14113 DU7/G4DUM
1531-21090 9V1UV
1532-14080 VK2OZ
1612-14090 MW0CRI
1616-14077 TA4EB
1636-14084 BV50CRA
1648-21095 PT7AZ
1650-21084 PY2SRB
1651-21081 LU4AA

1653-21079 CX4AAJ
1655-21083 LU2EE
1657-14086 VY2/NF6J
1700-14107 YE0ANA
1705-14081 3B8MM
1734-21093 YV6BTF
1739-14079 4L1BR
1741-14099 OE6MDF
1741-21077 CX4AAJ
1741-14082 A45WD
1743-14075 MW0CRI
1745-14091 YV5AAX
1750-14086 VY2/NF6J
1756-14092 TF3RB
1759-14094 UO6P
1812-14082 A45WD
1816-21085 NP4BM
1833-7032 RK0AXX
1834-14091 JA6ZPR
1850-14081 C6AWF
1937-14088 ER3ZZ
1937-14096 GW4SKA
1955-14097 G3YJQ
1957-14092 EA8RA
2003-14098 M0IPX
2018-14089 YV6BTF
2033-10139 MW0CRI
2035-7032 4L1BR
2055-14078 YE0ANA
2104-14085 NP4BM
2104-14104 TF3AO
2145-14080 8P2K
2151-14081 AH2J
2209-14083 ZL2AMI
2217-21085 ZL4BR
2327-7049 ZC4LI
2356-21081 DT50

Sunday 24
0007-21086 ZL2AMI
0029-7040 HZ1IK
0044-21084 BV50CRA
0048-7034 YV6BTF
0103-21092 VR2BG
0104-14086 HR1RMG
0139-28084 BV50CRA
0154-7042 GW4SKA
0158-7043 MM3AWD
0254-14087 EX8AB
0329-7039 KP4JRS
0402-21085 HS1PDY
0419-14088 ZK2QQ
0546-14081 VK3KE
0623-21090 KH2/JO3TND
0701-14087 UN8PIM
0718-21093 3B8MM
0724-14079 8P2K
0725-21089 YE0ANA
0725-14080 CX4AAJ
0755-28090 YC3MM
0808-7036 YY5ADM
0844-21086 9V1UV
0857-18103 SU9FL

0900-21085 AH2J
0916-7035 ZL2AMI
0918-21095 4L1BR
0922-14091 TF3AO
0930-7035 ZL2AMI
0933-7036 NP4BM
0943-7029 AH2J
0951-7028 7L1WII
0955-21087 3B8MM
1001-21077 YB0WWW
1012-7026 BV50CRA
1014-7036 PZ5RA
1035-14088 G0MTN
1036-14080 M0IPX
1037-21099 KH2/JO3TND
1043-7034 VR2XLN
1043-21091 CX7BF
1045-7032 VK6HD
1049-7032 HR1RMG
1105-21083 HS1PDY
1110-14077 M0SDX
1129-14078 E21EIC/8
1137-14101 KH2/JO3TND
1142-14089 HR1RMG
1152-14102 RW3DQC
1153-14103 MW0CRI
1203-10142 VQ9LA
1214-14080 MM3AWD/P Lighthouse - Sco-281
1319-18103 KP4JRS
1429-14085 A6/ON5NT
1800-14088 VR2XLN
1911-18104 C6AWF via G3SWH
1916-18101 4X6UO
2007-14083 CU3CC EU-175
2353-14080 CE3FCF

Monday 25
0019-14085 CO1RG
0049-14083 KP4SQ
0359-14088 ZK2QQ via JA1KAJ
0657-14080 EKG90ZZ
0826-14088 SV8ZC
0918-21084 DS2PQP
1316-14084 EI05CCC via EI5CRC
1522-14086 EZ0/UT3UV
1547-14087 UN8PIM
1631-18105 IK2OVT
1656-14084 EKG90ZZ
1737-14089 HZ1IK
1837-14084 TR8CA
1902-14087 EA8RA
2035-10139 I2UUA
2108-14085 HC5T
2120-14084 CE3CDV
2123-14080 YV4DJV
2234-10138 C6AWF

Tuesday 26
0428-14088 ZK2QQ
1239-18102 4X6UO
1320-14089 EI05CCC
1450-14086 TA4KA
1520-14086 VR2XLN

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1635-14089 3B9FR
1731-14087 AP2IA
1820-24922 SP9FKQ
1824-10138 RA4CC
1829-14093 VR2XLN
1831-14081 EKG90GM
1834-14088 YL740C
1847-14085 GM4FDM
2042-14086 CP6EB
2143-10124 UK/JI2MED
2247-14080 VY2/NF6J

Wednesday 27
0728-14081 E1RDX
1136-14089 MW0CPZ
1212-18104 I5FRD
1240-18105 OX3HX
1303-28084 SP1DID
1317-18101 YU1DGH
1340-14090 EI05CCC
1426-14087 AP2IA
1518-7030 ZK2QQ
1552-14085 4S7AB
1623-7036 YL740C
1640-14088 VR2XLN
1747-18103 HB9EAA
1905-14088 HZ1IK
1933-14086 CP6EB
1940-14084 EX2U via IK2QPR
2023-18080 DS50GOO
2136-10141 UN6G
2137-14089 TF3GC
2155-14087 CO1RG
2215-14080 FM1EM
2357-10138 C6AWF
2359-7085 HI3TEJ

Thursday 28
0004-10140 OZ8ABE
0030-14086 KP4SQ
0036-7036 TF3GC
0642-14088 ZK2QQ
0852-18101 UA3TN
1313-14084 VR2XLN
1526-14085 YL740C
1606-14087 CN8KD
1607-14088 UN7PYL
1623-14087 TF3GC
1634-14093 VR2XLN
1854-14082 HZ1IK
1936-14082 E1RDX
1949-14088 CP6EB

Notes of interest:

Jul 27 - Aug 03 CY0AA Sable Island. W8GEX, K8LEE and W9IXX will run RTTY.
QSL via K8LEE.

The VK2SG RTTY DX NOTES are distributed every week via the
Winlink network, and are also available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.
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To subscribe to the digital-dx reflector, send an e-mail
message to majordomo at mla.nifty.ne.jp as follows:
Subject:(blank) Message Body: subscribe digital-dx

For next week's bulletin, send your bandpass and notes of
interest to Luciano I5FLN email luciano.fusari at aliceposta.it

73 es Good RTTY DXing Phil GU0SUP

The Ohio/Penn DX Bulletin No. 707 -- excerpts

A6, UNITED ARAB EMIRATES
Ghis ON5NT who has been in UAE since Mar 05 is using his own
callsign/license A6/ON5NT. He informs OPDX that he will be
here until the end of Jun (time permitting), with an
interruption during the last 2 weeks of May (holidays at home).
He was heard this past week on 12 and 17M SSB. Watch 18145kHz
and 24945kHz possibly between 1200-1430z. There has also been
some CW/SSB/RTTY activity on 20/15/10M during the same time
(20M possibly later). QSL via ON5NT Ghis Penny, P.O.Box 93,
BE-9700 Oudenaarde, Belgium.

IOTA NEWS

AS-105. Members of the Pyongtaek DX Club (D90HE) will be active
from Kukhwa Island (KDN C027) May 20-22. Operators mentioned are
Han/DS2GOO Lee/6K2CEW Chae/DS5BSX and Young/6K2ABX. Operators
will be active as D90HE/2 and their homecall/p on 80-10M SSB and
RTTY. QSL D90HE/2 via DS2GOO and operators homecall/p via their
home callsign by the bureau or direct. Visit the Web page at
http://myhome.naver.com/dxer2han/as105

EU-052. Operators IK7JWX IZ8EZP IZ7AVU and IZ7ATN will be active
as SV8/homecall/p from Corfu Island and several Lighthouses
(GRE-117 GRE-156 GRE-159 GRE-170 and GRE-179) between May 6-9.
Activity will be on HF, the WARC bands on modes SSB/RTTY/PSK31.
They will also particate in the ARI Contest (May 7-8). QSL via
the operator's instructions.

SPECIAL EVENT (Enigma Machine To Be Reactivated After 60 Yrs)

In Sep 1939 the radio receivers of all radio amateurs were
ordered to be confiscated but many amateurs volunteered to
become Voluntary Interceptors (V.I.'s) in their own homes.
These V.I.s intercepted encrypted Enigma messages transmitted
in Morse Code which were passed to the code breakers at Bletchley
Park. Accuracy was crucial in order to assist decoding of the
message but many of the intercepted signals were weak or fading
and atmospheric conditions were often poor with QRM from loud
local stations. Searching through the bands was very painstaking
but it was a task that was carried out with great skill and
dedication, providing a most valuable service to the Allies.
As a tribute to the work of the V.I.s sixty years ago, the
Scarborough Special Events Group (SSEG) will be on the air as
GB2HQ from GCHQ Scarborough over the weekend of May 7-8. A
souvenir QSL card showing an Enigma cipher machine and an HRO
receiver will be issued to commemorate the occasion. GCHQ
have provided a working Enigma machine for use by the SSEG
and Ofcom and have given permission for transmission of an
enciphered Enigma message to be sent in Morse Code on the

amateur radio bands for this event only.
The group will be active on SSB PSK and CW. The CW station will operate around 7015 or 3515KHz and the Enigma message will be transmitted in Morse Code at 1100z on Sat May 7 at a speed of 15 wpm. The message will consist of a few five letter groups which will be repeated at 1300 and 1900z. GCHQ invites all licenced amateurs and listeners to submit a copy of this Enigma message and will award a certificate for a 100 percent accurate intercept. A copy of this message should be sent via club call G0OOO (Scarborough Special Events Group 9 Green Island, Irton, Scarborough YO12 4RN) and can be enclosed with a QSL card. The cost of the certificate is 3.00 sterling, 5 Euros, 5 USD, or 6 IRCs. (UK cheques should be made out to SSEG. All profits will be donated to GCHQ Scarborough Charities Fund. Full details will be published on their Web site at http://www.sseg.co.uk
Depending on your location conditions may not be favorable for reception on the day. However in this respect listeners will be experiencing the same problems faced by the V.I.s some sixty years ago. FISTS members are invited to take part in a practical demonstration of history brought to life through amateur radio. For more information about the Enigma machine, please visit the following Web pages: http://www.codesandciphers.org.uk/enigma/ http://www.enigmahistory.org/enigma.html

ST, SUDAN
Fernando ST2BF informs OPDX readers he is finally settled in his QTH in Sudan and is enjoying excellent propagation low noise and a pile up now and then HI. He has setup his Kenwood TS50 a modem for the digital modes and a 3 element tribander yagi, which is not very high up but is working quite well.

A2, ALBANIA
Alfredo IK7JWX will be active as ZA2/IK7JWX/p from Fier and Cape Durres Lighthouse (ALB-002) May 1-4. Activity will be on HF, the WARC bands on modes SSB/RTTY/PSK31. QSL via his home callsign by the bureau or direct

ZK2, NIUE
Aki JA1KAJ is now active as ZK2QQ until May 8. Activity will be on 80-10M CW/SSB/RTTY/SSTV. He was heard this past weekend on 17/15M SSB 20M RTTY and 40/30M CW. QSL via JA1KAJ.

The Society can be contacted in the following ways
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN